

MODEL 5351R/D Receiver/Decoder

General Description

The Model 5351R/D Receiver/Decoder receives ALERT data transmissions from remote sites and provides an RS232 output for the central site computer. The Receiver and Decoder are housed in separate enclosures, which allows the Receiver to be located near the antenna tower and the Decoder to be placed at the central site computer. Locating the Receiver at the antenna tower reduces the length of the RF transmission line and the associated RF signal loss, and eliminates the potential damage due to lightning entering the central site on the RF transmission line. The Receiver's antenna connection is also a lightning protection device; to be effective, the supplied ground lug should be attached to the antenna tower's earth ground.

Equipment supplied with the unit includes the Receiver to the Decoder cable (25'), the Decoder to the central site computer cable (6'), 12 Vdc Battery and Charger, and AC power cord.

During power outages the Battery supplies power to the Receiver; to eliminate the loss of data, HydroLynx recommends that the Decoder's AC power cord be plugged into the central site's UPS (Uninterruptible Power Supply).

HydroLynx recommends the use of a high gain omni antenna at the central site receive tower to increase radio path fade margins. Antenna and RF transmission line cables are ordered separately (refer to the Antenna and Antenna Cable Sections).

Specifications

Model 5351R

Enclosure:..... Desktop
Radio specifications:..... See RTR specifications
Power Required: 12 Vdc
Standby Current:..... 65 mA
Battery:..... 12 Vdc, 12 AH
Charger:..... 120 Vac, 0.2 A
Antenna Connector: N-type female lightning arrester
Audio Output Level: 800 mVp-p, Typical
Operating temperature: -40 to 60 °C
Size: 7.25 in. x 2.75 in. x 9 in.
Weight: 3 lbs

Model 5351D

Enclosure:..... Desktop
Power Required: 120 Vac, 50 mA
Output:..... Two RS232 DB25 Female connectors
Audio Input:..... 800 mVp-p
Dimensions:..... 7.25 in. x 2.75 in. x 9 in.
Weight: 3 lbs



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Ordering Information

5351R/D Receiver and Decoder in two desktops with AC
Battery charger for Receiver, AC/DC Power
Supply for Decoder and 25 ft. Interconnecting Cable
5351-R..... Receiver Only
5351-D..... Decoder Only

Specify receive radio frequencies.